

CLAIMS

What is claimed is:

- 1 1. A method for initiating an emergency Internet Protocol request using an Internet
2 Protocol enabled device having Global Positioning Systems capability, the method
3 comprising the steps of:
4 monitoring the Internet Protocol enabled device for one or more emergency criteria;
5 and
6 obtaining global positioning data using the Global Positioning Systems capability and
7 sending the emergency Internet Protocol request whenever the one or more emergency
8 criteria are satisfied.
- 1 2. The method as recited in claim 1, wherein the Internet Protocol enabled device is
2 selected from a group consisting of a PCMCIA card, a PCI card, an Internet Protocol phone,
3 a personal data assistant and a computer.
- 1 3. The method as recited in claim 1, wherein the one or more emergency criteria include
2 entry of an emergency code, a 911 signal, a panic signal, an emergency activation button, a
3 sensor alarm or an emergency condition specific signal.
- 1 4. The method as recited in claim 1, wherein the global positioning data includes
2 vertical and horizontal coordinates.
- 1 5. The method as recited in claim 1, wherein the global positioning data includes a
2 longitude, a latitude and an altitude for the Internet Protocol enabled device.
- 1 6. The method as recited in claim 1, wherein the step of sending the emergency Internet
2 Protocol request comprises the steps of:
3 imbedding the global positioning data into a Session Initiation Protocol request; and
4 sending the Session Initiation Protocol request.
- 1 7. The method as recited in claim 6, wherein the Session Initiation Protocol request is
2 sent to an address server.

- 1 8. The method as recited in claim 1, further comprising the steps of:
2 receiving the emergency Internet Protocol request at an address server;
3 obtaining local emergency services data based on the global positioning data;
4 dialing a call center station based on the local emergency services data; and
5 passing an emergency call from the Internet Protocol enabled device to the call center
6 station.
- 1 9. The method as recited in claim 8, wherein the call center station is an emergency
2 services operator.
- 1 10. The method as recited in claim 8, further comprising the step of providing a telephone
2 number for one or more local emergency service providers to the call center station based on
3 the local emergency services data.
- 1 11. The method as recited in claim 10, wherein the one or more local emergency service
2 providers are selected from the group consisting of an emergency call center, police, fire,
3 poison control, emergency medical services, coast guard, military, federal agency and rescue.
- 1 12. The method as recited in claim 8, further comprising the step of providing the global
2 positioning data to the call center station.
- 1 13. A method for handling an emergency Internet Protocol request from an Internet
2 Protocol enabled device having Global Positioning Systems capability, the method
3 comprising the steps of:
4 receiving the emergency Internet Protocol request containing global positioning data
5 for the Internet Protocol enabled device;
6 obtaining local emergency services data based on the global positioning data;
7 dialing a call center station based on the local emergency services data; and
8 passing an emergency call from the Internet Protocol enabled device to the call center
9 station.

1 14. The method as recited in claim 13, wherein the Internet Protocol enabled device is
2 selected from a group consisting of a PCMCIA card, a PCI card, an Internet Protocol phone,
3 a personal data assistant and a computer.

1 15. The method as recited in claim 13, wherein the emergency Internet Protocol request is
2 sent whenever one or more emergency criteria are satisfied.

1 16. The method as recited in claim 15, wherein the one or more emergency criteria
2 include entry of an emergency code, a 911 signal, a panic signal, an emergency activation
3 button, a sensor alarm or an emergency condition specific signal.

1 17. The method as recited in claim 13, wherein the global positioning data includes
2 vertical and horizontal coordinates.

1 18. The method as recited in claim 13, wherein the global positioning data includes a
2 longitude, a latitude and an altitude for the Internet Protocol enabled device.

1 19. The method as recited in claim 13, wherein the emergency Internet Protocol request
2 comprises a Session Initiation Protocol request.

1 20. The method as recited in claim 13, wherein the call center station is an emergency
2 services operator.

1 21. The method as recited in claim 13, further comprising the step of providing a
2 telephone number for one or more local emergency service providers to the call center station
3 based on the local emergency services data.

1 22. The method as recited in claim 21, wherein the one or more local emergency service
2 providers are selected from the group consisting of an emergency call center, police, fire,
3 poison control, emergency medical services, coast guard, military, federal agency and rescue.

1 23. The method as recited in claim 13, further comprising the step of providing the global
2 positioning data to the call center station.

1 24. A computer program embodied on a computer readable medium for initiating an
2 emergency Internet Protocol request using an Internet Protocol enabled device having Global
3 Positioning Systems capability, the computer program comprising:

4 a code segment for monitoring the Internet Protocol enabled device for one or more
5 emergency criteria; and

6 a code segment for obtaining global positioning data using the Global Positioning
7 Systems capability and sending the emergency Internet Protocol request whenever the one or
8 more emergency criteria are satisfied.

1 25. The computer program as recited in claim 24, wherein the Internet Protocol enabled
2 device is selected from a group consisting of a PCMCIA card, a PCI card, an Internet
3 Protocol phone, a personal data assistant and a computer.

1 26. The computer program as recited in claim 24, wherein the one or more emergency
2 criteria include entry of an emergency code, a 911 signal, a panic signal, an emergency
3 activation button, a sensor alarm or an emergency condition specific signal.

1 27. The computer program as recited in claim 24, wherein the global positioning data
2 includes vertical and horizontal coordinates.

1 28. The computer program as recited in claim 24, wherein the global positioning data
2 includes a longitude, a latitude and an altitude for the Internet Protocol enabled device.

1 29. The computer program as recited in claim 24, wherein the code segment for sending
2 the emergency Internet Protocol request comprises:

3 a code segment for imbedding the global positioning data into a Session Initiation
4 Protocol request; and

5 a code segment for sending the Session Initiation Protocol request.

1 30. The computer program as recited in claim 29, wherein the Session Initiation Protocol
2 request is sent to an address server.

1 31. The computer program as recited in claim 24, further comprising:
2 a code segment for receiving the emergency Internet Protocol request at an address
3 server;
4 a code segment for obtaining local emergency services data based on the global
5 positioning data;
6 a code segment for dialing a call center station based on the local emergency services
7 data; and
8 a code segment for passing an emergency call from the Internet Protocol enabled
9 device to the call center station.

1 32. The computer program as recited in claim 31, wherein the call center station is an
2 emergency services operator.

1 33. The computer program as recited in claim 31, further comprising a code segment for
2 providing a telephone number for one or more local emergency service providers to the call
3 center station based on the local emergency services data.

1 34. The computer program as recited in claim 33, wherein the one or more local
2 emergency service providers are selected from the group consisting of an emergency call
3 center, police, fire, poison control, emergency medical services, coast guard, military, federal
4 agency and rescue.

1 35. The computer program as recited in claim 31, further comprising a code segment for
2 providing the global positioning data to the call center station.

1 36. A computer program for handling an emergency Internet Protocol request from an
2 Internet Protocol enabled device having Global Positioning Systems capability, the computer
3 program comprising:

4 a code segment for receiving the emergency Internet Protocol request containing
5 global positioning data for the Internet Protocol enabled device;

6 a code segment for obtaining local emergency services data based on the global
7 positioning data;

8 a code segment for dialing a call center station based on the local emergency services
9 data; and

10 a code segment for passing an emergency call from the Internet Protocol enabled
11 device to the call center station.

1 37. The computer program as recited in claim 36, wherein the Internet Protocol enabled
2 device is selected from a group consisting of a PCMCIA card, a PCI card, an Internet
3 Protocol phone, a personal data assistant and a computer.

1 38. The computer program as recited in claim 36, wherein the emergency Internet
2 Protocol request is sent whenever one or more emergency criteria are satisfied.

1 39. The computer program as recited in claim 38, wherein the one or more emergency
2 criteria include entry of an emergency code, a 911 signal, a panic signal, an emergency
3 activation button, a sensor alarm or an emergency condition specific signal.

1 40. The computer program as recited in claim 36, wherein the global positioning data
2 includes vertical and horizontal coordinates.

1 41. The computer program as recited in claim 36, wherein the global positioning data
2 includes a longitude, a latitude and an altitude for the Internet Protocol enabled device.

1 42. The computer program as recited in claim 36, wherein the emergency Internet
2 Protocol request comprises a Session Initiation Protocol request.

1 43. The computer program as recited in claim 36, wherein the call center station is an
2 emergency services operator.

1 44. The computer program as recited in claim 36, further comprising a code segment for
2 providing a telephone number for one or more local emergency service providers to the call
3 center station based on the local emergency services data.

1 45. The computer program as recited in claim 44, wherein the one or more local
2 emergency service providers are selected from the group consisting of an emergency call
3 center, police, fire, poison control, emergency medical services, coast guard, military, federal
4 agency and rescue.

1 46. The computer program as recited in claim 36, further comprising a code segment for
2 providing the global positioning data to the call center station.

1 47. An apparatus comprising:
2 an Internet Protocol enabled device;
3 a Global Positioning Systems component within the Internet Protocol enabled device;
4 and
5 an emergency Internet Protocol component within the Internet Protocol enabled
6 device that monitors the Internet Protocol enabled device for one or more emergency criteria,
7 and obtains global positioning data from the Global Positioning Systems component and
8 sends the emergency Internet Protocol request whenever the one or more emergency criteria
9 are satisfied.

1 48. The apparatus as recited in claim 47, wherein the Internet Protocol enabled device is
2 selected from a group consisting of a PCMCIA card, a PCI card, an Internet Protocol phone,
3 a personal data assistant and a computer.

1 49. The apparatus as recited in claim 47, wherein the one or more emergency criteria
2 include entry of an emergency code, a 911 signal, a panic signal, an emergency activation
3 button, a sensor alarm or an emergency condition specific signal.

1 50. The apparatus as recited in claim 47, wherein the global positioning data includes
2 vertical and horizontal coordinates.

1 51. The apparatus as recited in claim 47, wherein the global positioning data includes a
2 longitude, a latitude and an altitude for the Internet Protocol enabled device.

1 52. The apparatus as recited in claim 47, wherein the emergency Internet Protocol request
2 comprises a Session Initiation Protocol request containing the global positioning data.

1 53. The apparatus as recited in claim 52, wherein the Session Initiation Protocol request
2 is sent to an address server that obtains local emergency services data based on the global
3 positioning data, dials a call center station based on the local emergency services data and
4 passes an emergency call from the Internet Protocol enabled device to the call center station.

1 54. The apparatus as recited in claim 53, wherein the call center station is an emergency
2 services operator.

1 55. The apparatus as recited in claim 53, wherein the address server further provides a
2 telephone number for one or more local emergency service providers to the call center station
3 based on the local emergency services data.

1 56. The apparatus as recited in claim 55, wherein the one or more local emergency
2 service providers are selected from the group consisting of an emergency call center, police,
3 fire, poison control, emergency medical services, coast guard, military, federal agency and
4 rescue.

1 57. The apparatus as recited in claim 53, wherein the address server further provides the
2 global positioning data to the call center station.

1 58. A system comprising:
2 an address server;
3 a database communicably coupled to the address server; and
4 the address server receiving an emergency Internet Protocol request containing global
5 positioning data for an Internet Protocol enabled device, obtaining local emergency services
6 data based on the global positioning data and providing emergency information to one or
7 more emergency services based on the local emergency services data.

- 1 59. The system as recited in claim 58, further comprising:
2 a communications network communicably coupled to the address server; and
3 one or more Internet Protocol enabled devices communicably coupled to the
4 communications network.
- 1 60. The system as recited in claim 59, wherein the Internet Protocol enabled device is
2 selected from a group consisting of a PCMCIA card, a PCI card, an Internet Protocol phone,
3 a personal data assistant and a computer.
- 1 61. The system as recited in claim 59, wherein the emergency Internet Protocol request is
2 sent whenever one or more emergency criteria are satisfied.
- 1 62. The system as recited in claim 61, wherein the one or more emergency criteria
2 include entry of an emergency code, a 911 signal, a panic signal, an emergency activation
3 button, a sensor alarm or an emergency condition specific signal.
- 1 63. The system as recited in claim 59, wherein the global positioning data includes
2 vertical and horizontal coordinates.
- 1 64. The system as recited in claim 59, wherein the global positioning data includes a
2 longitude, a latitude and an altitude for the Internet Protocol enabled device.
- 1 65. The system as recited in claim 59, wherein the emergency Internet Protocol request
2 comprises a Session Initiation Protocol request.
- 1 66. The system as recited in claim 59, wherein the call center station is an emergency
2 services operator.
- 1 67. The system as recited in claim 59, wherein the address server further provides a
2 telephone number for one or more local emergency service providers to the call center station
3 based on the local emergency services data.

1 68. The system as recited in claim 67, wherein the one or more local emergency service
2 providers are selected from the group consisting of an emergency call center, police, fire,
3 poison control, emergency medical services, coast guard, military, federal agency and rescue.

1 69. The system as recited in claim 59, wherein the address server further provides the
2 global positioning data to the call center station.